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METHOD FOR ASCERTAINING NETWORK BANDWIDTH ALLOCATION POLICY ASSOCIATED WITH APPLICATION PORT NUMBERS

ABSTRACT OF THE DISCLOSURE

A network comprises a local group of network workstations and clients that periodically need access to a wide area network like the Internet. A class-based queue traffic shaper is placed in between and enforces multiple service-level agreement policies on individual connection sessions by limiting the maximum data throughput for each connection. The class-based queue traffic shaper distinguishes amongst datapackets according to their respective source and/or destination application types. Which policy is appropriate to enforce is found by listing all standard port numbers for an application in a single port group. Policies are attached according to port group. field of over 64K possible port numbers is thus reduced to a short list of application groups, e.g., twelve or less. a datapacket arrives that needs to be classified according to application, its port numbers are used to index a port group table This returns an application type and a concomitant service-level agreement policy.